Team iGEM UFSCar-Brasil

1% AGAROSE GEL ELETROPHORESIS

1. Mix 0,3g Agarose and 30mL 1x TAE buffer [40 mM Tris (pH 7.6), 20 mM acetic acid, 1mM EDTA].

2. Heat up until Agarose is dissolved.

3. Let cool.

4. Add ethidium bromide in a concentration of 0.2-0.5µg/mL (about 2-5µL of lab stock solution (10 mg/mL) per 100 mL gel).
(NOTE: ethidium bromide is an acute toxin and a strong mutagen, always use nitrile gloves)

5. Pour into gel tray on the cuvette and let cool.

6. Fill the gel with 1x TAE buffer.

7. Add the loading buffer to each the sample.

8. Carefully load the DNA ladder into the first well of the gel and the samples into the additional wells.

9. Run the gel for 40-50 minutes at 100 volts.